## AMENDMENTS TO THE CLAIMS

1. (currently amended) A flushing and filtering system for an electroerosion
machine, comprising:
a work tank configured to maintain a workpiece therein;
a first filtering stage for roughly filtering residue-containing machining
liquid exiting from said work tank; and
a second filtering stage for finely filtering roughly-filtered machining
liquid exiting from said first filtering stage;
a first fluid return path to said work tank, said first fluid return path
comprising a high-pressure return path for introducing finely-filtered machining fluid
through an electrode included in the electroerosion machine; and
a second fluid return path to said work tank, said second fluid return path
introducing said finely-filtered machining fluid through a liquid adding inlet disposed at a
lower portion of said work tank.
2. (cancelled)
3. (currently amended) The flushing and filtering system of claim $2\underline{1}$ ,
wherein said first filtering stage further comprises:
a rough filtering device for receiving residue-containing machining liquid
exiting from said work tank;
a first filtering tank for holding said roughly-filtered machining liquid
passed through said rough filtering device; and
a rough filtering pump for transferring said roughly-filtered machining
liquid from said first filtering tank to said second filtering stage.

The flushing and filtering system of claim 3, wherein said second

4. (original)

filtering stage further comprises:

- a fine filtering device for receiving said roughly-filtered machining liquid transferred from said first filtering tank;
- a fine filtering tank for holding said finely-filtered machining liquid passed through said fine filtering device;
- a high-pressure pump for supplying said finely filtered machining liquid through said first fluid return path; and
- a liquid-adding pump for supplying said finely filtered machining liquid through said second fluid return path.
- 5. (currently amended) The flushing and filtering system of claim 21, wherein said first fluid return path is further configured so as to provide said finely filtered machining liquid to a guide bush, said guide bush having an end of said electrode disposed therethrough.
- 6. (currently amended) The flushing and filtering system of claim 21, wherein a bottom surface of said work tank is sloped so as to cause said residue-containing machining liquid to run toward an outlet proximate the bottom of said work tank.
- 7. (original) The flushing and filtering system of claim 1, wherein said machining liquid is a dielectric material.
- 8. (original) The flushing and filtering system of claim 1, wherein said machining liquid is an electrolyte material.
- 9. (original) The flushing and filtering system of claim 4, further comprising a pressure sensor within said first fluid return path.
- 10. (original) The flushing and filtering system of claim 1, wherein said work tank is configured to keep said workpiece completely submerged within said machining

fluid.

- 11. (original) The flushing and filtering system of claim 5, wherein work tank is further configured to spray machining fluid on exterior surfaces of said guide bush and said workpiece.
- 12. (original) The flushing and filtering system of claim 11, further comprising a nozzle configured for spraying machining fluid on said exterior surfaces of said guide bush and said workpiece, said nozzle included within said second fluid return path.
- 13. (currently amended) A method for flushing and filtering an electroerosion machine, comprising:

passing a residue-containing machining liquid through a first filtering stage for roughly filtering said residue-containing machining liquid, said residue-containing liquid exiting from a work tank configured to maintain a workpiece therein; and

passing roughly-filtered machining liquid exiting from said first filtering stage into a second filtering stage for fine filtering of said roughly-filtered machining liquid;

returning finely-filtered machining fluid to said work tank through a first fluid return path, said first fluid return path comprising a high-pressure return path for introducing said finely-filtered machining fluid through an electrode included in the electroerosion machine; and

returning said finely-filtered machining fluid to said work tank through a second fluid return path, said second fluid return path introducing said finely-filtered machining fluid through a liquid adding inlet disposed at a lower portion of said work tank.

## 14. (cancelled)

- 15. (currently amended) The method of claim 1413, wherein said first filtering stage further comprises:
- a rough filtering device for receiving residue-containing machining liquid exiting from said work tank;
- a first filtering tank for holding said roughly-filtered machining liquid passed through said rough filtering device; and
- a rough filtering pump for transferring said roughly-filtered machining liquid from said first filtering tank to said second filtering stage.
- 16. (original) The method of claim 15, wherein said second filtering stage further comprises:
- a fine filtering device for receiving said roughly-filtered machining liquid transferred from said first filtering tank;
- a fine filtering tank for holding said finely-filtered machining liquid passed through said fine filtering device;
- a high-pressure pump for supplying said finely filtered machining liquid through said first fluid return path; and
- a liquid-adding pump for supplying said finely filtered machining liquid through said second fluid return path.
- 17. (currently amended) The method of claim 1413, wherein said first fluid return path is further configured so as to provide said finely filtered machining liquid to a guide bush, said guide bush having an end of said electrode disposed therethrough.
- 18. (currently amended) The method of claim 1413, wherein a bottom surface of said work tank is sloped so as to cause said residue-containing machining liquid to run toward an outlet proximate the bottom of said work tank.

- 19. (original) The method of claim 13, wherein the electroerosion machine includes a dielectric material passed through a gap between the tool electrode and workpiece.
- 20. (original) The method of claim 13, wherein the electroerosion machine includes an electrolyte passed through a gap between the tool electrode and workpiece.
- 21. (original) The method of claim 16, further comprising a pressure sensor within said first fluid return path.
- 22. (original) The method of claim 13, wherein said work tank is configured to keep said workpiece completely submerged within said machining fluid.
- 23. (original) The method of claim 13, wherein said work tank is further configured to spray machining fluid on exterior surfaces of said guide bush and said workpiece.
- 24. (original) The method of claim 23, further comprising spraying said machining fluid on said exterior surfaces of said guide bush and said workpiece through a nozzle, said nozzle included within said second fluid return path.